

ABRADING WHEELS WEAR AND ABRASION TESTING



Taber® abrading wheels produce characteristic rub wear action.

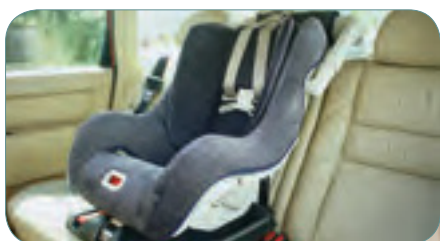
Used with the Taber Rotary Platform Abraser, two abrasive wheels create the circular wear path recognized as a Taber test. As specimens are subjected to the rub-wear action of the wheels, the abrasion marks form a pattern of crossed arcs resulting in a circular ring. This process abrades the sample over all angles of grain or weave, and covers approximately 30 square centimeters.

Analytical grade abrasive materials ensure test repeatability.

The composition of Taber abrading wheels has been carefully chosen and a rigorous quality program maintains the uniformity of the wheels. Used in pairs, each wheel is labeled left or right to assure the mounting position will be duplicated should the wheels be removed and later reinstalled. The wheels should be refaced according to recommended practice, and can be used to their minimum usable diameter of 45 mm (1 3/4 inch) O.D.

Offered in a range of abrasiveness for a range of material evaluation.

The choice of abrading wheels should be based upon the wear the specimen material will be subjected to in actual use. Calibrade® wheels are a resilient type, typically used to test rigid specimens. Calibrade® wheels are vitrified, and are often used to evaluate flexible specimens. Other wheels are available for specific or unique applications, and custom formulations can be developed upon request.



Calibrase® Wheels - with 'Easy Glide' wheel hub

CS-10F	Has milder abrading action than the CS-10 wheel. Used primarily with transparent materials to evaluate hazing.	<i>Do not exceed 500g load</i>
CS-10	Mild – medium abrading action, like that of normal handling, cleaning or polishing. Popular wheel for coatings, plastics, textiles, leather, and paper products.	
CS-10P	Intended for testing paper and paper products.	
CS-10W	Same as CS-10, but white. No color transfer from wheel to specimen.	
CS-17	Produces a harsher abrasion than the CS-10 wheel. Useful for testing ceramics, plastics, and anodized aluminum.	

Reface with S-11 Refacing Disc except CS-10F use ST-11 Refacing Stone
 Use before expiration date
 Store in original container
 Recommended storage conditions: temperature 23°C ±2°C and relative humidity 50% ±5%



Calibrade® Wheels

H-10	Designed for testing steel and other ferrous alloys.	
H-18	Medium abrasive properties. Recommended for leather, rubber, woven textile fabrics, coated fabrics, flexible plastic sheet, and other resilient materials.	
H-22	Produces a coarse abrasion. Test materials such as rubber, linoleum, leather, deep pile fabrics, and concrete.	
H-38	Very fine-grained wheel. Principal use is for testing woven fabrics or delicate textiles.	<i>Do not exceed 500g load, reface with multipoint tool</i>

Reface with Taber Wheel Refacer

NOTE: The wear life of Calibrase or Calibrade wheels will vary based on the load; surface texture and frictional characteristics of the material tested; and frequency of refacing. The abrasive coefficient can be altered by oil or contaminants, handle only the sides of the wheels.



Specialty Wheels

CS-5	Densely compacted wool felt wheel. Principal use is in testing textile fabrics to evaluate one fibrous material rubbing against another.	<i>Do not exceed 500g load</i>
S-32 (CS-0)	Plain rubber wheel containing no abrasive. Used for very mild abrasive action, wet tests, and to mount S-33 or S-42 adhesive sandpaper strips.	
S-35	Tungsten Carbide wheel consisting of sharp 1 mm pitch x 45° spiral pitch angle, helical teeth cut in its periphery. Produces a very severe cutting and tearing action. Use only on resilient materials.	<i>Clean with solvent and stiff brush</i>
S-39	A leather strip mounted to the exterior of a brass hub. Use in conjunction with Grit Feeder.	<i>Minimum usable diameter is 46 mm (1 7/8 inch)</i>
S-33	Sandpaper Strip used with S-32 (CS-0) wheel. 12.7mm x 160mm, 360 FEPA, closed coat, with PSA.	
S-42	Sandpaper Strip used with S-32 (CS-0) wheel. 12.7mm x 160mm, 180 ANSI-CAMI, open coat, with PSA.	

